

What is claimed is:

1. A proportioning device, comprising:
  - a manually operable actuating device (3),
  - 5    - a sensor (12) associated with the actuating device (3) for detecting a force manually exerted on the actuating device (3),
  - an electric driving motor (14),
  - an electric control (17) connected to the sensor (12) and electric driving motor (14) for controlling the driving motor (14) during the detection by
  - 10   the sensor of a force exerted on the actuating device (3),
  - an electric voltage supply (18) connected to the sensor (12), electric driving motor (14), and electronic control (17), and
  - a displacement device (5, 6) coupled to the actuating device (3) and electric driving motor (14) for proportioning a liquid.
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2. The proportioning device according to claim 1 wherein the actuating device (3) is an actuating button manually displaceable in an axial direction.
3. The proportioning device according to claim 1 wherein the actuating device (3)
- 20   is operable against the force of a spring (9).
4. The proportioning device according to claim 1 wherein the actuating device (3) is operable until a stop (7, 8) is reached.
- 25   5. The proportioning device according to claim 1 wherein the sensor (12) is integrated into the actuating device (3).
6. The proportioning device according to claim 5 wherein the sensor is integrated into an actuation surface (13) of the actuating device (3).

7. The proportioning device according to claim 1 wherein the sensor (12) is an FSR.
- 5 8. The proportioning device according to claim 1 wherein the control (17) constantly controls the driving motor (14) when a force is detected by the sensor (12).
9. The proportioning device according to claim 1 wherein the control (17)  
10 controls the driving motor (14) in response to the force detected by the sensor (12).
10. The proportioning device according to claim 9 wherein the control (17) controls the driving motor (14) in at least one stage.
- 15 11. The proportioning device according to claim 9 wherein the control (17) controls the driving motor (14) proportionally to the force detected by the sensor (12).
- 20 12. The proportioning device according to claim 1 wherein the actuating device (3) and the driving motor (14) are connected to the displacement device (5, 6) via a coupling device (4).
13. The proportioning device according to claim 1 wherein the actuating device (3)  
25 is connected to the displacement device (5, 6) via a rod (4).
14. The proportioning device according to claim 13 wherein the electric driving motor (14) is coupled to the rod (4).

15. The proportioning device according to claim 13 wherein the actuating button (3) is operable until a stop (7) connected to the rod (4) bears on a fixed counter-stop (8).
- 5 16. The proportioning device according to claim 1 wherein the displacement device (5, 6) is a piston which is guided in a cylinder.
17. The proportioning device according to claim 16 wherein the displacement device (5, 6) is a detachable syringe (10).
- 10 18. The proportioning device according to claim 16 wherein the displacement device (5, 6) is connected to a detachable pipette tip (10).
- 15 19. The proportioning device according to claim 1 wherein the actuating device (3) is coupled to a device for detaching and/or dropping a pipette tip (10) and/or syringe.
20. The proportioning device according to claim 1 which is a hand-operated proportioning device (1).
- 20 21. The proportioning device according to claim 1 wherein the electric power supply (10) has at least one accumulator and/or at least one battery.
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